

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Original) A method of isolating a thiol R'SH from a thiol-containing mixture, the method including the steps of
forming a mixed disulphide R'SSR of the thiol R'SH in the mixture, in which R is a non-immobilised hydrophobic moiety;
purifying the mixed disulphide R'SSR;
reducing the purified mixed disulphide R'SSR to produce a mixture of the thiols R'SH and RSH; and
isolating the thiol R'SH.
2. (Currently Amended) ~~[[A]]~~ The method as claimed in Claim 1, ~~in which~~ wherein purifying the mixed disulphide R'SSR includes exploiting an increased hydrophobicity thereof relative to the thiol R'SH.
3. (Currently Amended) ~~[[A]]~~ The method as claimed in Claim 2, ~~in~~ wherein the mixed disulphide R'SSR is purified by selective precipitation.
4. (Currently Amended) ~~[[A]]~~ The method as claimed in Claim 2, ~~in which~~ wherein the mixed disulphide R'SSR is purified by chromatography.
5. (Currently Amended) ~~[[A]]~~ The method as claimed in Claim 4, ~~in which~~ wherein the mixed disulphide is purified by means of reversed phase high performance liquid chromatography (HPLC).
6. (Currently Amended) ~~[[A]]~~ The method as claimed in ~~any of the preceding claims,~~ in which Claim 1, wherein forming the mixed disulphide includes reacting the free thiol species R'SH with a mixed disulphide compound R'SSR, in which R' is a 2-thiopyridyl group and R is a non-polar thiol group.

7. (Currently Amended) ~~[[A]] The method as claimed in any one of the preceding claims, in which~~ Claim 1, wherein the purified mixed disulphide is reduced with dithiothreitol or β -mercaptoethanol.

8. (Currently Amended) ~~[[A]] The method as claimed in any one of the preceding claims in which~~ Claim 1, wherein the thiol R'SH is isolated by high performance liquid chromatography (HPLC).

9. (Currently Amended) ~~[[A]] The method as claimed in Claim 8, in which~~ wherein the high performance liquid chromatography is performed on a C18 reversed phase medium having a polar mobile phase.

10. (Currently Amended) ~~[[A]] The method as claimed in Claim 9, in which~~ wherein the mobile phase includes at least one compound selected from the group comprising water and acetonitrile.

11. (Currently Amended) ~~[[A]] The method as claimed in any one of the preceding claims, in which~~ claim 6, wherein the group R is a substituted or unsubstituted polynuclear aromatic group.

12. (Currently Amended) ~~[[A]] The method as claimed in Claim 11, in which~~ wherein the group R is a 6-hydroxynaphthyl group.

13. (Currently Amended) ~~[[A]] The method as claimed in Claim 12, in which~~ wherein the mixed disulphide is 2-thiopyridyl-6-hydroxynaphthyl disulphide.

14. (Currently Amended) ~~[[A]] The method as claimed in Claim 13, in which~~ wherein the thiol R'SH is 1-D-myo-inosityl-2-deoxy-2-(N-acetyl-L-cysteinyl)amino- α -D-glucopyranoside, or mycothiol.

15. (Currently Amended) ~~[[A]] The method as claimed in claim 14, in which~~ wherein the mixed disulphide is 2-S-(mycothiolyl)-6-hydroxynaphthalenedisulphide.

16. (Original) A disulphide of the formula R'SSR in which R'S is mycothiolyl and R of the substituent -RS is a hydrophobic moiety.

17. (Currently Amended) ~~[[A]]~~ The disulphide as claimed in Claim 16, ~~in which~~ wherein R is a polynuclear aromatic group.

18. (Currently Amended) ~~[[A]]~~ The disulphide as claimed in Claim 17, ~~in which~~ wherein R is ~~the~~ a 6-hydroxynaphthyl group.